

Roll No. : .....

Total No. of Questions : 11 ]

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# **DPG-2294**

## **Post-Graduate Diploma Examination, 2022**

### **COMPUTER APPLICATION**

Paper - PGDCA-105

**(Computer Networks)**

*Time : 3 Hours ]*

*[ Maximum Marks : 50*

#### **Section-A**

**(Marks : 2 × 10 = 20)**

**Note :-** Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

#### **Section-B**

**(Marks : 3 × 5 = 15)**

**Note :-** Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **3** marks.

#### **Section-C**

**(Marks : 5 × 3 = 15)**

**Note :-** Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

#### **Section-A**

1. (i) What do you understand by Topology ?
- (ii) What is the concept of Data Communication ?
- (iii) Explain mode of Data Transmission.

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- (iv) Differentiate between digital and analog signal.
- (v) What is the functionalities of DLL ?
- (vi) Define Line Discipline.
- (vii) Explain IPV4.
- (viii) What do you understand by Packet Fragmentation ?
- (ix) Define End-to-End Transmission.
- (x) Explain Network services of Application Layer.

**Section-B**

2. Explain types of Topologies.

*Or*

Explain LAN Technologies.

3. Explain digital to Analog Transmission Techniques.

*Or*

What is Switching ? Explain circuit switching.

4. Explain Stop and Wait ARQ method of Error control.

*Or*

Explain POLL/SELECT method of line discipline.

5. What do you understand by Tunneling ?

*Or*

Explain Network Addressing.

6. Explain client server model.

*Or*

What do you understand by UDP of Transport Layer ?

**Section-C**

7. Explain OSI model in detail.

8. What do you understand by Transmission Media ?
9. Explain flow control functionality of DLL.
10. What is Routing ? Explain the technique of Routing.
11. Explain TCP (Transmission Control Protocol) of Transport Layer.